



Weekly COVID-19 Vaccination Report

The Weekly COVID-19 Vaccination Report includes the most currently available information on vaccines administered, as well as more granular information by geography, demographic factors, and more.

This report will be posted each Wednesday.

An important note regarding vaccination progress

Source: Centers for Disease Control and Prevention. COVID Data Tracker.
Atlanta, GA: US Department of Health and Human Services, CDC; March 15, 2023.
<https://covid.cdc.gov/covid-data-tracker>

Massachusetts currently ranks tied for first among US states for the rate of persons with one or more doses administered per capita.

Massachusetts currently ranks first for the rate of persons with one or more doses per capita among states with populations of five million people or more.



Please note: This report reflects data available in the Massachusetts Immunization Information System (MIIS) as of Monday at 11:59PM and is pulled every Tuesday. Due to provider reporting of administration data and data processing, data may be available in MIIS 24-48 hours or more after administration. Due to time needed for inputting shipment data, shipment data may be available in MIIS 24-48 hours or more after shipment. MIIS data are available for analysis one calendar day after they are reported to the MIIS. Data are current as of time of publication and may be subject to change in future publications as additional data are reported. All data are from MIIS unless otherwise noted.

COVID-19 Vaccines Administered

Data as of March 20, 2023

Administered (MIIS)* through Monday, March 20, 2023 (Running totals by day)

| | March 14, 2023 | March 15, 2023 | March 16, 2023 | March 17, 2023 | March 18, 2023 | March 19, 2023 | March 20, 2023 |
|---|----------------|----------------|----------------|----------------|----------------|----------------|----------------|
| At least one dose -- number of people who received at least one dose of Moderna, Pfizer, Novavax, or Johnson & Johnson vaccine** | 6,541,671 | 6,542,083 | 6,542,527 | 6,542,901 | 6,543,152 | 6,543,244 | 6,543,482 |
| Fully vaccinated -- number of people who received a primary series of Moderna, Pfizer, Novavax or Johnson & Johnson vaccine*** | 5,636,341 | 5,636,615 | 5,636,883 | 5,637,118 | 5,637,228 | 5,637,264 | 5,637,429 |
| First booster doses -- number of people who received a booster dose of Moderna, Pfizer, or Johnson & Johnson vaccine**** | 3,522,418 | 3,522,862 | 3,523,382 | 3,523,792 | 3,524,027 | 3,524,108 | 3,524,495 |
| Second booster doses -- number of people who have received at least 2 booster doses***** | 1,655,275 | 1,655,898 | 1,656,601 | 1,657,175 | 1,657,627 | 1,657,780 | 1,658,232 |
| Total Doses Administered (MIIS) | 17,615,298 | 17,617,294 | 17,619,576 | 17,621,444 | 17,622,680 | 17,623,110 | 17,624,537 |

*Data from the Massachusetts Immunization Information System (MIIS) are as of midnight the night before.

**Now that the majority of Massachusetts residents have received at least one dose of COVID-19 vaccine, changes to this cumulative count may represent data corrections and deduplications.

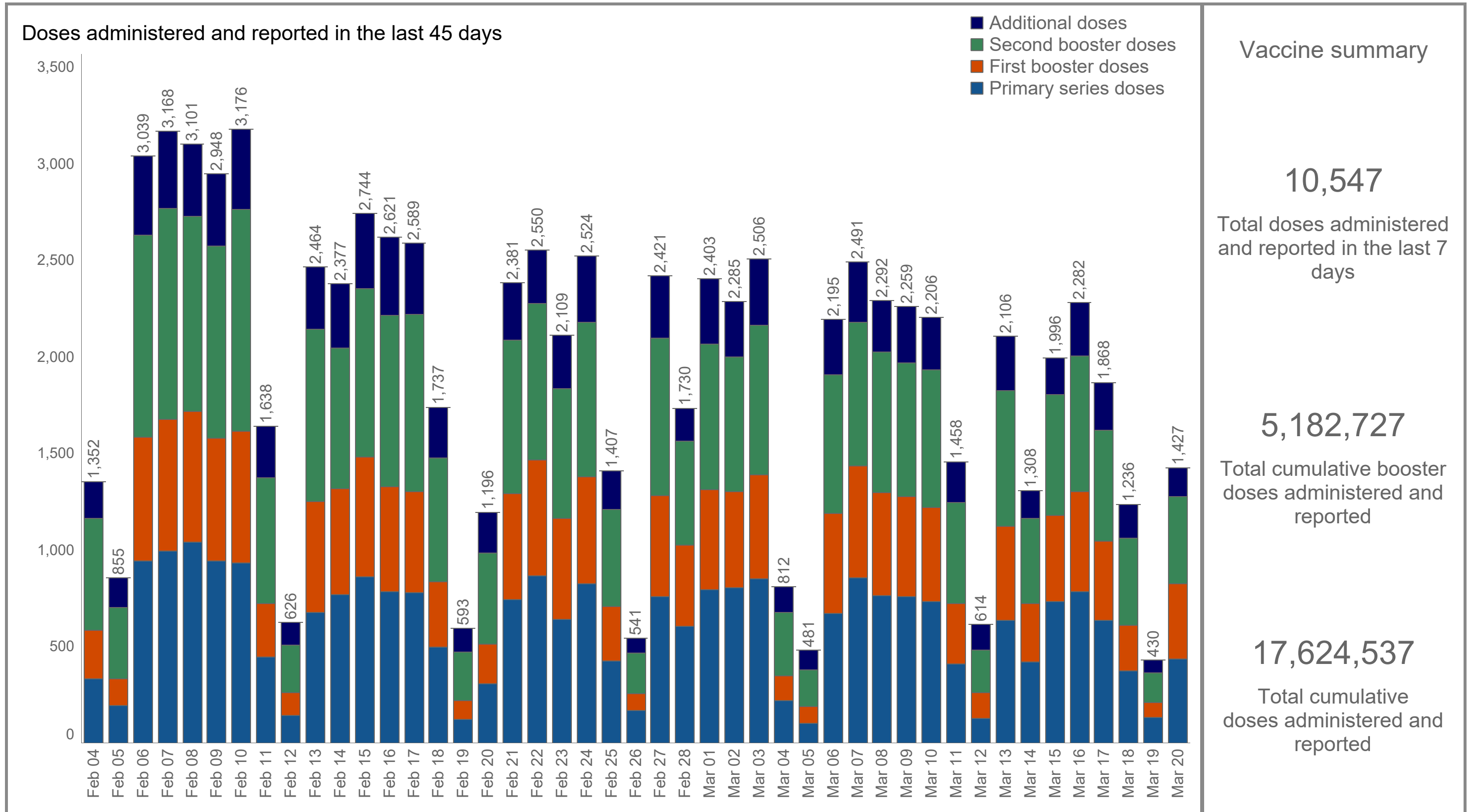
***An individual is counted as fully vaccinated if they have received the number of doses required to complete the primary series for their age and all of these doses have been reported to MIIS. Pfizer recipients under 5 years of age require three doses of vaccine; all other Pfizer recipients require two doses. Moderna and Novavax recipients require two doses of vaccine. Janssen/Johnson & Johnson recipients require one dose of vaccine.

****See the definitions page at the end of this document for the full definition. Booster doses are currently recommended for everyone aged 5 years and older. See <https://www.mass.gov/info-details/covid-19-booster-frequently-asked-questions> for details on which formulation of vaccine is recommended at which intervals.

*****Second booster doses: Number of individuals who have received an additional dose after their first booster dose.

COVID-19 Vaccine Doses Administered

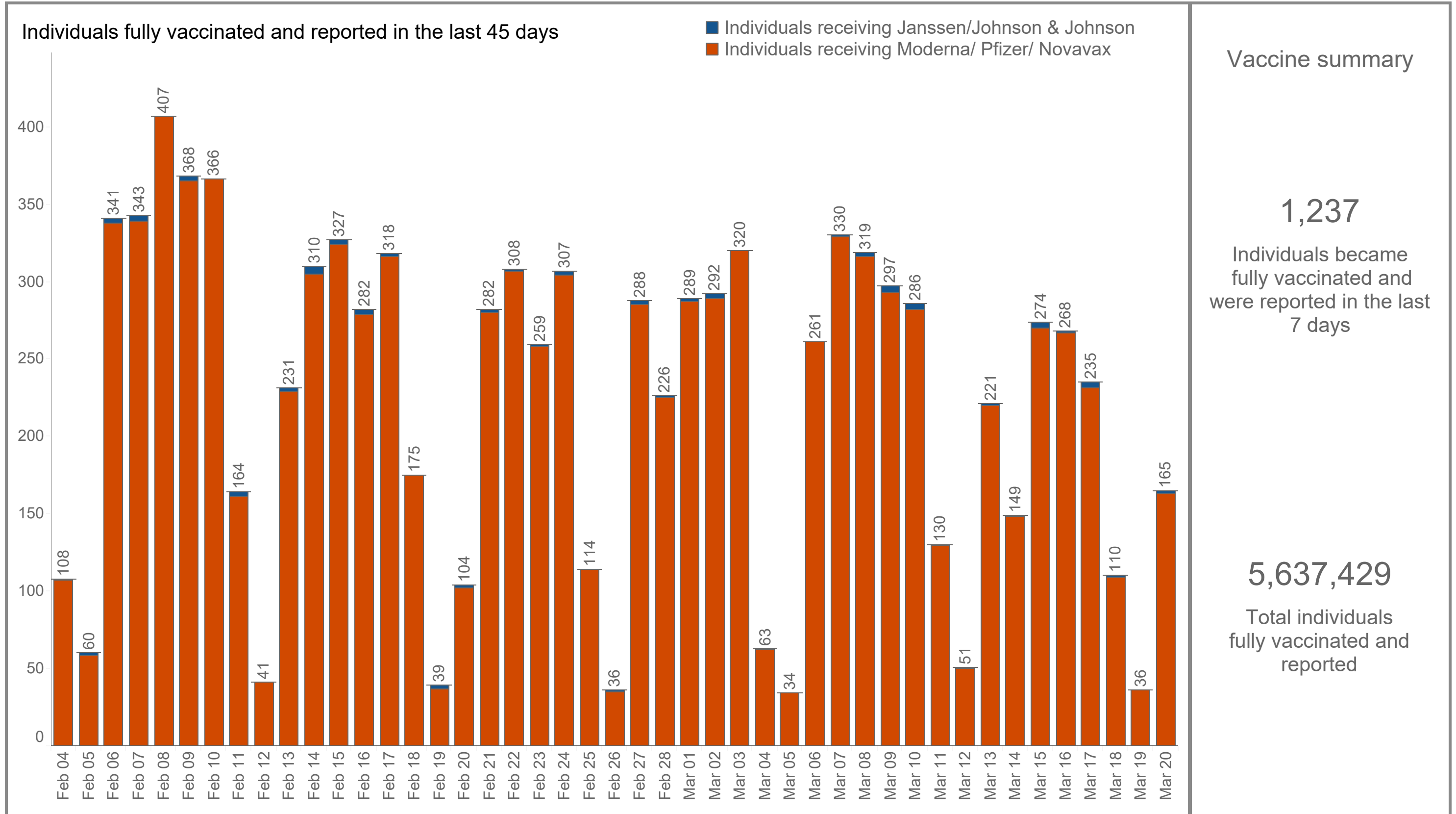
Data as of March 20, 2023



Note: Data from MIIS (see "definitions"). Data reflect doses administered (see "definitions"). Dates reflect the date doses were administered. Doses administered: All valid doses of Janssen/Johnson & Johnson, Moderna, Novavax, and Pfizer COVID-19 vaccine that have been given to people by providers and reported to MIIS are included in this measurement. Primary series doses: the number of doses required to complete the primary series for their age and all of these doses have been reported to MIIS. Pfizer recipients under 5 years of age require three doses of vaccine; all other Pfizer recipients require two doses. Moderna and Novavax recipients require two doses of vaccine. Janssen/Johnson & Johnson recipients require one dose of vaccine. See the definitions page at the end of this document.

Individuals Fully Vaccinated

Data as of March 20, 2023



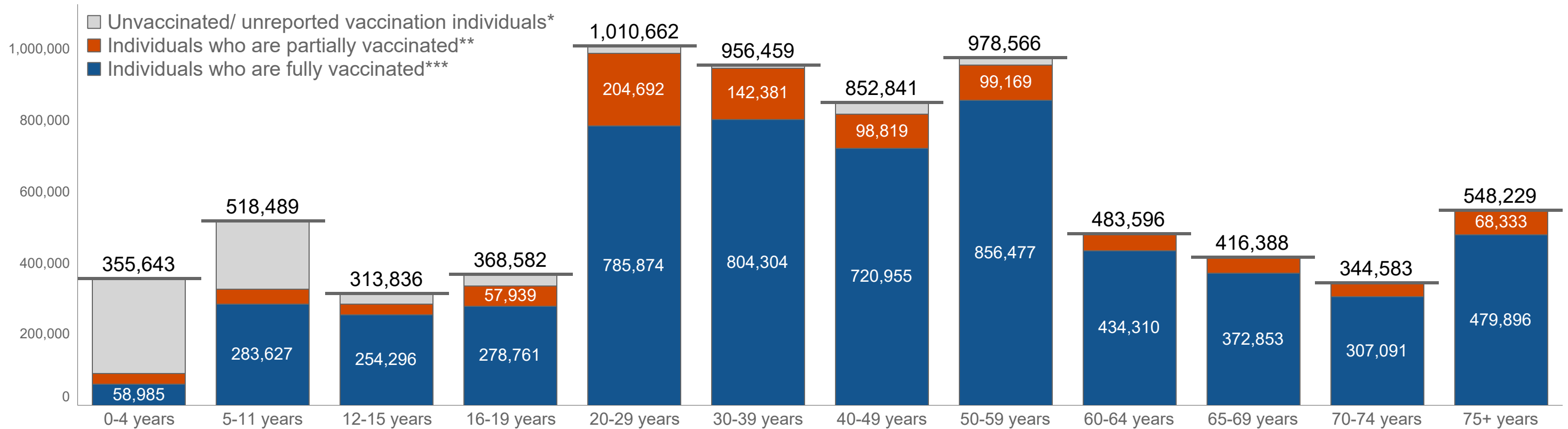
NOTE: Data from MIIS (see "definitions"). Dates reflect the date doses were administered. Individuals fully vaccinated: An individual is counted as fully vaccinated if they have received the number of doses required to complete the primary series for their age and all of these doses have been reported to MIIS. Pfizer recipients under 5 years of age require three doses of vaccine; all other Pfizer recipients require two doses. Moderna and Novavax recipients require two doses of vaccine. Janssen/Johnson & Johnson recipients require one dose of vaccine.

Individuals with at Least One Dose

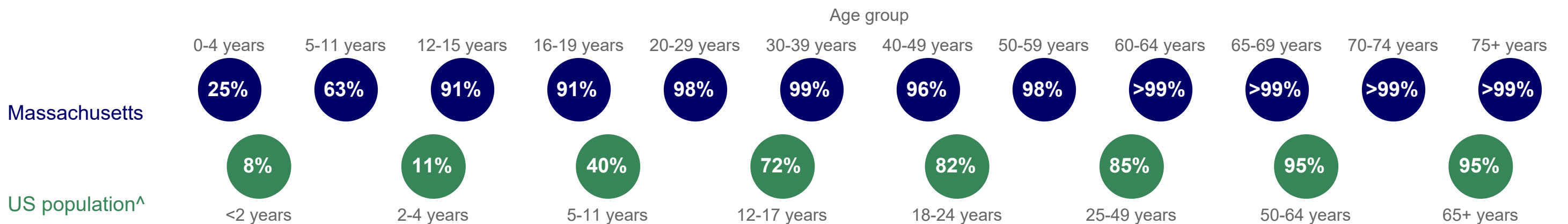
Data as of March 20, 2023

In Massachusetts, 93% of the population has received at least one dose, compared with 81% of the US population.

Vaccination status of individuals by age group (cumulative)



Percent of population with at least one dose



Vaccination status is reported at the age at which the vaccine was administered. Individuals transition into older age groups over time keeping aggregate totals consistent across the sum of all age categories. Now that the majority of Massachusetts residents have received at least one dose of COVID-19 vaccine, changes to this cumulative count may represent data corrections and deduplications.

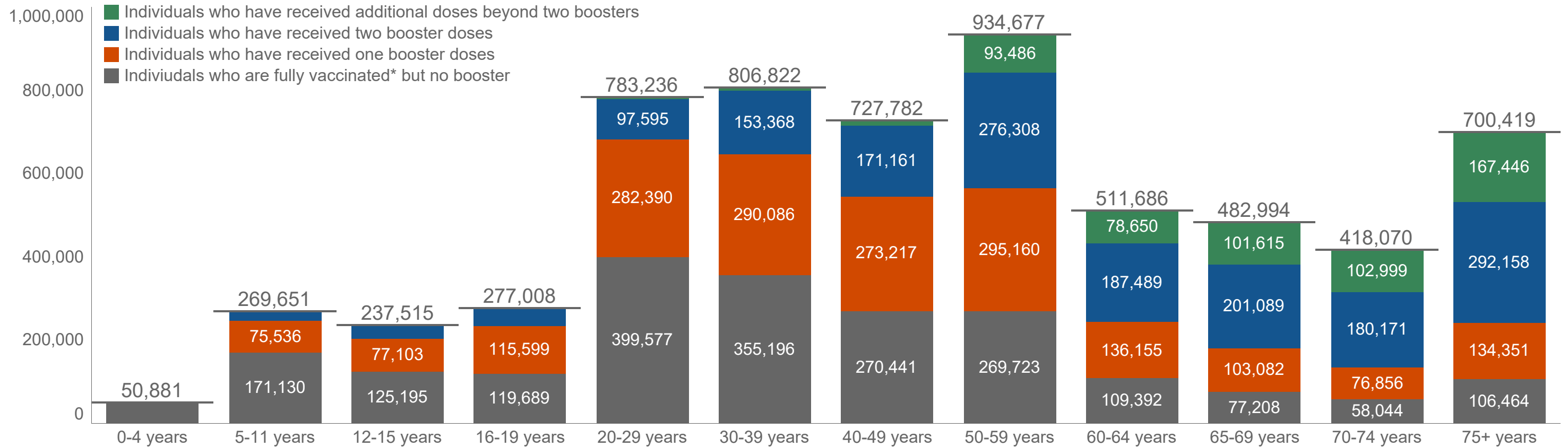
*Unvaccinated/unreported vaccination individuals: This is the population estimate for the subpopulation minus the number of people who received at least one dose of vaccine. It is important to recall that not being represented in MIIS does not necessarily mean someone has not received vaccine. **Individuals who are partially vaccinated are those who have received at least one dose, but have not completed a primary series. ***Individuals fully vaccinated: An individual is counted as fully vaccinated if they have received the number of doses required to complete the primary series for their age and all of these doses have been reported to MIIS. Pfizer recipients under 5 years of age require three doses of vaccine; all other Pfizer recipients require two doses. Moderna and Novavax recipients require two doses of vaccine. Janssen/Johnson & Johnson recipients require one dose of vaccine. ^CDC percent of population coverage metrics are capped at 95%. For more information: <https://www.cdc.gov/coronavirus/2019-ncov/vaccines/reporting-vaccinations.html> Sources: (1) Massachusetts Immunization Information System (MIIS). MIIS data are available for analysis one calendar day after they are reported to the MIIS. Data are current as of time of publication and are subject to change in future publications as additional data are reported. (2) Centers for Disease Control and Prevention. COVID Data Tracker. Atlanta, GA: US Department of Health and Human Services, CDC;2023-03-15://covid.cdc.gov/covid-data-tracker (3) MDPH calculates rates per 100,000 population using denominators estimated by the University of Massachusetts Donahue Institute using a modified Hamilton-Perry model (Strate S, et al. Small Area Population Estimates for 2011 through 2020, report, Oct 2016.)

Individuals who have Received Booster Doses

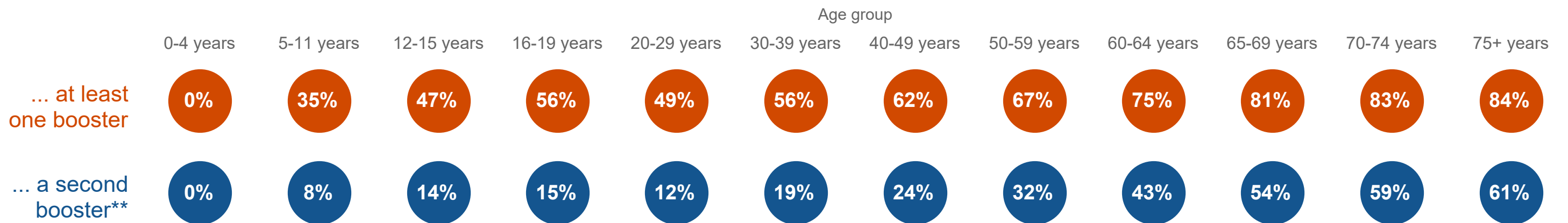
Data as of March 20, 2023

In Massachusetts, 63% of those fully vaccinated have received a booster dose.

Booster status of fully vaccinated individuals by age group



Percent of the Massachusetts fully vaccinated* population with...



Vaccination status is reported at the age at which the vaccine was administered. Individuals transition into older age groups over time keeping aggregate totals consistent across the sum of all age categories.
 *Individuals fully vaccinated: An individual is counted as fully vaccinated if they have received the number of doses required to complete the primary series for their age and all of these doses have been reported to MIIS. Pfizer recipients under 5 years of age require three doses of vaccine; all other Pfizer recipients require two doses. Moderna and Novavax recipients require two doses of vaccine. Janssen/Johnson & Johnson recipients require one dose of vaccine. This includes some individuals who may not be eligible for a booster (i.e. less than 2 months after primary series). **Not mutually exclusive. The 'second booster' row includes all those counted in the first row, with at least one booster, plus those individuals who have received an additional dose. Sources: (1) Massachusetts Immunization Information System (MIIS). MIIS data are available for analysis one calendar day after they are reported to the MIIS. Data are current as of time of publication and are subject to change in future publications as additional data are reported. (2) Centers for Disease Control and Prevention. COVID Data Tracker. Atlanta, GA: US Department of Health and Human Services, CDC;2023-03-15. <https://covid.cdc.gov/covid-data-tracker> (3) MDPH calculates rates per 100,000 population using denominators estimated by the University of Massachusetts Donahue Institute using a modified Hamilton-Perry model (Strate S, et al. Small Area Population Estimates for 2011 through 2020, report, Oct 2016.)

Individuals Fully Vaccinated

Data as of March 20, 2023

Individuals fully vaccinated by county, race, and Hispanic ethnicity (1 of 2)

Number of people in the county and race/ethnicity group who are fully vaccinated divided by the estimated population in the county and race/ethnicity group

| | American Indian or Alaskan Native | Asian | Black or African American | Hispanic | Multi-race | Native Hawaiian or Pacific Islander | White | Unknown/ Other race** | Total |
|------------|-----------------------------------|----------------------------|----------------------------|-----------------------------|----------------------------|-------------------------------------|-----------------------------|--|-----------------------------|
| Barnstable | 45% of 1,171 residents | 70% of 3,230 residents | 80% of 6,644 residents | >95% of 7,637 residents | 39% of 12,144 residents | >95% of 53 residents | 79% of 198,117 residents | 3% of 228,996 Barnstable county residents | 81% of 228,996 residents |
| Berkshire | 52% of 153 residents | 72% of 1,978 residents | 65% of 4,132 residents | 62% of 6,619 residents | 41% of 5,666 residents | * | 77% of 110,470 residents | 3% of 129,026 Berkshire county residents | 76% of 129,026 residents |
| Bristol | 45% of 1,045 residents | 65% of 13,752 residents | 77% of 24,506 residents | 63% of 53,995 residents | 38% of 32,048 residents | >95% of 148 residents | 66% of 453,707 residents | 3% of 579,200 Bristol county residents | 67% of 579,200 residents |
| Dukes | 51% of 219 residents | >95% of 181 residents | >95% of 809 residents | >95% of 452 residents | 23% of 1,899 residents | * | 81% of 17,031 residents | 8% of 20,600 Dukes county residents | 87% of 20,600 residents |
| Essex | 46% of 808 residents | 76% of 29,651 residents | 79% of 27,604 residents | 60% of 181,759 residents | 69% of 26,257 residents | >95% of 155 residents | 80% of 543,595 residents | 3% of 809,829 Essex county residents | 78% of 809,829 residents |
| Franklin | 52% of 122 residents | 85% of 1,215 residents | 66% of 985 residents | 57% of 3,329 residents | 36% of 3,207 residents | * | 77% of 62,163 residents | 3% of 71,029 Franklin county residents | 77% of 71,029 residents |
| Hampden | 58% of 646 residents | 71% of 12,176 residents | 61% of 36,442 residents | 52% of 120,694 residents | 56% of 15,087 residents | >95% of 165 residents | 71% of 280,615 residents | 4% of 465,825 Hampden county residents | 69% of 465,825 residents |
| Hampshire | 49% of 199 residents | 52% of 10,709 residents | 53% of 4,398 residents | 50% of 11,248 residents | 44% of 6,930 residents | >95% of 43 residents | 76% of 128,781 residents | 3% of 162,308 Hampshire county residents | 73% of 162,308 residents |

* Vaccination figures with fewer than 30 people are suppressed for privacy.

** "Unknown/other race" is shown as a % of the row population (county or state). "Unknown/unspecified county" is shown as a % of the column population (age or race/ethnicity group).

Individuals fully vaccinated: An individual is counted as fully vaccinated if they have received the number of doses required to complete the COVID-19 vaccine series for their age and all of these doses have been reported to MIIS. Pfizer recipients under 5 years of age require three doses of vaccine; all other Pfizer recipients require two doses. Moderna and Novavax recipients require two doses of vaccine. Janssen/Johnson & Johnson recipients require one dose of vaccine.

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Individuals Fully Vaccinated

Data as of March 20, 2023

Individuals fully vaccinated by county, race, and Hispanic ethnicity (2 of 2)

Number of people in the county and race/ethnicity group who are fully vaccinated divided by the estimated population in the county and race/ethnicity group

| | American Indian or Alaskan Native | Asian | Black or African American | Hispanic | Multi-race | Native Hawaiian or Pacific Islander | White | Unknown/ Other race** | Total |
|------------------------|-----------------------------------|----------------------------------|----------------------------------|-------------------------------------|---------------------------------------|-------------------------------------|------------------------------------|---|-------------------------------|
| Middlesex | 66% of 1,511 residents | 78% of 212,123 residents | 74% of 84,324 residents | 76% of 141,738 residents | 86% of 81,692 residents | >95% of 380 residents | 81% of 1,110,235 residents | 4% of 1,632,002 Middlesex county residents | 84% of 1,632,002 residents |
| Nantucket | * | 76% of 274 residents | >95% of 1,025 residents | 90% of 2,175 residents | 29% of 615 residents | * | 76% of 10,149 residents | 7% of 14,255 Nantucket county residents | 84% of 14,255 residents |
| Norfolk | 49% of 736 residents | 77% of 88,772 residents | 76% of 50,563 residents | 72% of 37,460 residents | >95% of 29,540 residents | >95% of 151 residents | 80% of 518,759 residents | 3% of 725,981 Norfolk county residents | 82% of 725,981 residents |
| Plymouth | 34% of 893 residents | 68% of 7,962 residents | 82% of 48,249 residents | 68% of 23,417 residents | 47% of 35,840 residents | 61% of 220 residents | 75% of 414,238 residents | 2% of 530,819 Plymouth county residents | 75% of 530,819 residents |
| Suffolk | 51% of 1,235 residents | 82% of 81,295 residents | 78% of 142,086 residents | 76% of 177,973 residents | 64% of 37,543 residents | >95% of 357 residents | 71% of 357,446 residents | 4% of 797,936 Suffolk county residents | 78% of 797,936 residents |
| Worcester | 45% of 1,183 residents | 72% of 46,778 residents | 62% of 45,164 residents | 69% of 110,448 residents | 57% of 37,582 residents | >95% of 145 residents | 72% of 620,810 residents | 2% of 862,111 Worcester county residents | 73% of 862,111 residents |
| Unknown/ Unspecified** | 3% of 9,939 AI/AN residents | 3% of 510,096 Asian residents | 2% of 476,930 Black residents | 1% of 878,944 Hispanic residents | 1% of 326,050 Multi-race residents | 7% of 1,841 NH/PI residents | 3% of 4,826,116 White residents | 0% of 7,029,917 MA residents | 3% of 7,029,917 residents |
| Massachusetts | 52% of 9,939 residents | 79% of 510,096 residents | 76% of 476,930 residents | 69% of 878,944 residents | 67% of 326,050 residents | >95% of 1,841 residents | 79% of 4,826,116 residents | 3% of 7,029,917 MA residents | 80% of 7,029,917 residents |

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Individuals Fully Vaccinated

Data as of March 20, 2023

Individuals fully vaccinated by county and age group (1 of 2)

Number of people in the county and age group who are fully vaccinated divided by the estimated population in the county and age group

| | 0-4 years | 5-11 years | 12-15 years | 16-19 years | 20-29 years | 30-39 years | 40-49 years | 50-59 years | 60-64 years | 65-69 years | 70-74 years | 75+ years | Total |
|-------------------|----------------------------|----------------------------|----------------------------|----------------------------|-----------------------------|-----------------------------|----------------------------|-----------------------------|-----------------------------|-----------------------------|-----------------------------|-----------------------------|-----------------------------|
| Barnstable | 9% of 8,117 residents | 44% of 12,225 residents | 74% of 7,999 residents | 82% of 8,444 residents | 73% of 22,109 residents | 85% of 20,313 residents | 81% of 21,363 residents | 83% of 34,083 residents | 90% of 21,351 residents | 90% of 21,806 residents | 93% of 19,831 residents | >95% of 31,352 residents | 81% of 228,996 residents |
| Berkshire | 11% of 5,429 residents | 56% of 8,296 residents | 74% of 5,380 residents | 69% of 6,484 residents | 65% of 15,369 residents | 80% of 13,757 residents | 79% of 13,736 residents | 81% of 19,125 residents | 88% of 10,525 residents | 90% of 9,518 residents | >95% of 8,017 residents | 90% of 13,390 residents | 76% of 129,026 residents |
| Bristol | 7% of 30,091 residents | 31% of 45,540 residents | 62% of 27,527 residents | 67% of 29,121 residents | 60% of 74,766 residents | 67% of 73,958 residents | 71% of 73,224 residents | 78% of 85,414 residents | 87% of 39,125 residents | 92% of 31,728 residents | 94% of 25,741 residents | 87% of 42,964 residents | 67% of 579,200 residents |
| Dukes | 10% of 882 residents | 59% of 1,267 residents | >95% of 785 residents | >95% of 653 residents | >95% of 2,070 residents | >95% of 2,359 residents | 94% of 2,432 residents | 85% of 3,147 residents | 84% of 1,702 residents | 81% of 1,801 residents | 88% of 1,574 residents | 91% of 1,929 residents | 87% of 20,600 residents |
| Essex | 12% of 44,345 residents | 52% of 64,079 residents | 80% of 38,871 residents | 79% of 41,764 residents | 72% of 102,396 residents | 82% of 101,407 residents | 82% of 99,259 residents | 86% of 118,474 residents | 93% of 56,226 residents | >95% of 46,143 residents | >95% of 36,776 residents | 93% of 60,087 residents | 78% of 809,829 residents |
| Franklin | 13% of 3,011 residents | 47% of 4,819 residents | 73% of 2,910 residents | 89% of 2,764 residents | 70% of 7,572 residents | 76% of 8,732 residents | 75% of 8,315 residents | 80% of 10,333 residents | 85% of 6,159 residents | 92% of 5,875 residents | >95% of 4,581 residents | 92% of 5,954 residents | 77% of 71,029 residents |
| Hampden | 4% of 24,918 residents | 36% of 38,042 residents | 64% of 23,128 residents | 63% of 26,022 residents | 59% of 65,472 residents | 70% of 59,405 residents | 76% of 53,671 residents | 81% of 62,992 residents | 88% of 31,187 residents | 94% of 25,936 residents | >95% of 20,519 residents | 90% of 34,534 residents | 69% of 465,825 residents |
| Hampshire | 23% of 5,278 residents | 66% of 8,930 residents | 82% of 5,934 residents | 38% of 16,019 residents | 47% of 33,434 residents | 84% of 16,604 residents | 85% of 16,047 residents | 87% of 20,206 residents | >95% of 10,664 residents | >95% of 9,895 residents | >95% of 7,914 residents | >95% of 11,383 residents | 73% of 162,308 residents |

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Individuals Fully Vaccinated

Data as of March 20, 2023

Individuals fully vaccinated by county and age group (2 of 2)

Number of people in the county and age group who are fully vaccinated divided by the estimated population in the county and age group

| | 0-4 years | 5-11 years | 12-15 years | 16-19 years | 20-29 years | 30-39 years | 40-49 years | 50-59 years | 60-64 years | 65-69 years | 70-74 years | 75+ years | Total |
|---------------------------|--|---|--|--|--|--|--|--|--|--|--|--|-------------------------------|
| Middlesex | 27% of 83,667 residents | 70% of 121,734 residents | 92% of 73,083 residents | 80% of 82,715 residents | 79% of 242,436 residents | 86% of 242,118 residents | 89% of 206,995 residents | 89% of 222,367 residents | 95% of 100,804 residents | >95% of 81,083 residents | >95% of 64,640 residents | 95% of 110,359 residents | 84% of 1,632,002 residents |
| Nantucket | 4% of 857 residents | 47% of 1,012 residents | 87% of 562 residents | >95% of 507 residents | >95% of 1,722 residents | 94% of 2,214 residents | 92% of 2,184 residents | 92% of 2,082 residents | 88% of 945 residents | 93% of 764 residents | >95% of 562 residents | 82% of 847 residents | 84% of 14,255 residents |
| Norfolk | 25% of 37,515 residents | 66% of 56,630 residents | 86% of 35,180 residents | 85% of 36,428 residents | 80% of 90,767 residents | 85% of 95,497 residents | 83% of 93,243 residents | 88% of 105,961 residents | 94% of 48,444 residents | >95% of 39,164 residents | >95% of 31,323 residents | 90% of 55,829 residents | 82% of 725,981 residents |
| Plymouth | 10% of 27,514 residents | 44% of 42,518 residents | 71% of 26,597 residents | 79% of 27,177 residents | 70% of 61,517 residents | 77% of 61,280 residents | 77% of 65,393 residents | 83% of 81,528 residents | 90% of 38,334 residents | 95% of 31,886 residents | >95% of 26,374 residents | >95% of 40,701 residents | 75% of 530,819 residents |
| Suffolk | 17% of 40,171 residents | 55% of 47,420 residents | 87% of 26,325 residents | 59% of 46,527 residents | 80% of 176,345 residents | 82% of 145,860 residents | 87% of 88,768 residents | 88% of 87,549 residents | 89% of 40,123 residents | 92% of 32,272 residents | >95% of 24,580 residents | 87% of 41,995 residents | 78% of 797,936 residents |
| Worcester | 10% of 45,082 residents | 46% of 68,600 residents | 73% of 42,016 residents | 72% of 46,659 residents | 67% of 114,476 residents | 75% of 111,763 residents | 77% of 108,360 residents | 81% of 126,900 residents | 88% of 58,820 residents | 94% of 46,033 residents | >95% of 35,450 residents | 89% of 57,952 residents | 73% of 862,111 residents |
| Unknown/ Unspecified** | 0% of 356,875 MA residents 0-4 Years | 1% of 521,112 MA residents 5-11 Years | 1% of 316,296 MA residents 12-15 Years | 2% of 371,285 MA residents 16-19 Years | 5% of 1,010,451 MA residents 20-29 Years | 4% of 955,267 MA residents 30-39 Years | 3% of 852,990 MA residents 40-49 Years | 2% of 980,162 MA residents 50-59 Years | 3% of 464,409 MA residents 60-64 Years | 2% of 383,903 MA residents 65-69 Years | 2% of 307,883 MA residents 70-74 Years | 2% of 509,277 MA residents 75+ Years | 3% of 7,029,917 residents |
| Massachusetts | 17% of 356,875 residents | 54% of 521,112 residents | 80% of 316,296 residents | 75% of 371,285 residents | 78% of 1,010,451 residents | 84% of 955,267 residents | 85% of 852,990 residents | 87% of 980,162 residents | 94% of 464,409 residents | >95% of 383,903 residents | >95% of 307,883 residents | 94% of 509,277 residents | 80% of 7,029,917 residents |

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Individuals who have Received Booster Doses

Data as of March 20, 2023

Individuals with at least one booster dose administered by county, race, and Hispanic ethnicity (1 of 2)

Number of people in the county and race/ethnicity group with at least one booster dose divided by the fully vaccinated population in the county and race/ethnicity group

| | American Indian or Alaskan Native | Asian | Black or African American | Hispanic | Multi-race | Native Hawaiian or Pacific Islander | White | Unknown/ Other race** | Total |
|------------|-----------------------------------|----------------------------|----------------------------|-----------------------------|----------------------------|-------------------------------------|-----------------------------|--|-----------------------------|
| Barnstable | 57% of 528 residents | 61% of 2,273 residents | 40% of 5,336 residents | 51% of 8,235 residents | 73% of 4,726 residents | 41% of 93 residents | 70% of 157,468 residents | 1% of 185,631 Barnstable county residents | 66% of 185,631 residents |
| Berkshire | 41% of 80 residents | 55% of 1,431 residents | 48% of 2,673 residents | 49% of 4,120 residents | 67% of 2,348 residents | * | 67% of 84,696 residents | 1% of 98,665 Berkshire county residents | 64% of 98,665 residents |
| Bristol | 34% of 474 residents | 56% of 8,911 residents | 46% of 18,988 residents | 44% of 34,209 residents | 66% of 12,226 residents | 36% of 178 residents | 60% of 300,417 residents | 1% of 390,257 Bristol county residents | 56% of 390,257 residents |
| Dukes | 61% of 112 residents | 66% of 174 residents | 46% of 876 residents | 45% of 963 residents | 70% of 433 residents | * | 70% of 13,735 residents | 2% of 17,976 Dukes county residents | 63% of 17,976 residents |
| Essex | 36% of 375 residents | 64% of 22,452 residents | 50% of 21,829 residents | 46% of 108,631 residents | 72% of 18,158 residents | 47% of 209 residents | 67% of 434,672 residents | 1% of 630,627 Essex county residents | 61% of 630,627 residents |
| Franklin | 47% of 64 residents | 59% of 1,028 residents | 52% of 654 residents | 54% of 1,909 residents | 75% of 1,147 residents | * | 70% of 47,714 residents | 1% of 54,394 Franklin county residents | 68% of 54,394 residents |
| Hampden | 39% of 373 residents | 56% of 8,685 residents | 52% of 22,192 residents | 46% of 62,319 residents | 67% of 8,515 residents | 46% of 185 residents | 63% of 200,198 residents | 2% of 320,922 Hampden county residents | 57% of 320,922 residents |
| Hampshire | 59% of 98 residents | 62% of 5,535 residents | 58% of 2,326 residents | 59% of 5,599 residents | 79% of 3,053 residents | * | 74% of 97,308 residents | 1% of 118,839 Hampshire county residents | 71% of 118,839 residents |

* Vaccination figures with fewer than 30 people are suppressed for privacy.

** "Unknown/other race" is shown as a % of the row population (county or state). "Unknown/unspecified county" is shown as a % of the column population (age or race/ethnicity group).

Booster doses administered: See the definitions page at the end of this document.

Source: Massachusetts Immunization Information System (MIIS). MIIS data are available for analysis one calendar day after they are reported to the MIIS. Data are current as of time of publication and are subject to change in future publications as additional data are reported. Data reflect doses administered (see "definitions"). Population estimates source: MDPH calculates rates per 100,000 population using denominators estimated by the University of Massachusetts Donahue Institute using a modified Hamilton-Perry model (Strate S, et al. Small Area Population Estimates for 2011 through 2020, report, Oct 2016.)

Note about totals: The difference in the Massachusetts state population total created by summing the age categories and by summing the race categories is expected due to the manner in which the estimates were created with small, compounded rounding and records with unknown demographic information.

Individuals who have Received Booster Doses

Data as of March 20, 2023

Individuals with at least one booster dose administered by county, race, and Hispanic ethnicity (2 of 2)

Number of people in the county and race/ethnicity group with at least one booster dose divided by the fully vaccinated population in the county and race/ethnicity group

| | American Indian or Alaskan Native | Asian | Black or African American | Hispanic | Multi-race | Native Hawaiian or Pacific Islander | White | Unknown/ Other race** | Total |
|------------------------|-----------------------------------|----------------------------------|----------------------------------|-------------------------------------|---------------------------------------|-------------------------------------|------------------------------------|---|-------------------------------|
| Middlesex | 42% of 993 residents | 67% of 165,041 residents | 56% of 61,994 residents | 50% of 108,260 residents | 77% of 69,914 residents | 49% of 492 residents | 72% of 904,511 residents | 1% of 1,369,469 Middlesex county residents | 67% of 1,369,469 residents |
| Nantucket | * | 62% of 207 residents | 36% of 990 residents | 29% of 1,947 residents | 69% of 179 residents | * | 64% of 7,683 residents | 1% of 11,942 Nantucket county residents | 52% of 11,942 residents |
| Norfolk | 40% of 363 residents | 69% of 68,339 residents | 57% of 38,486 residents | 56% of 26,910 residents | 77% of 32,316 residents | 52% of 227 residents | 71% of 413,169 residents | 1% of 598,083 Norfolk county residents | 68% of 598,083 residents |
| Plymouth | 37% of 301 residents | 64% of 5,382 residents | 46% of 39,427 residents | 49% of 16,001 residents | 68% of 16,691 residents | 47% of 134 residents | 65% of 309,296 residents | 1% of 400,126 Plymouth county residents | 61% of 400,126 residents |
| Suffolk | 44% of 631 residents | 64% of 66,281 residents | 57% of 110,338 residents | 51% of 135,026 residents | 75% of 24,149 residents | 50% of 595 residents | 68% of 254,868 residents | 1% of 623,218 Suffolk county residents | 60% of 623,218 residents |
| Worcester | 36% of 538 residents | 64% of 33,910 residents | 50% of 27,878 residents | 46% of 75,952 residents | 72% of 21,267 residents | 46% of 213 residents | 65% of 448,287 residents | 1% of 628,833 Worcester county residents | 61% of 628,833 residents |
| Unknown/ Unspecified** | 2% of 5,214 AI/AN residents | 2% of 403,716 Asian residents | 1% of 361,418 Black residents | 1% of 602,174 Hispanic residents | 1% of 218,898 Multi-race residents | 1% of 2,554 NH/PI residents | 1% of 3,802,452 White residents | 0% of 5,637,429 MA residents | 1% of 5,637,429 residents |
| Massachusetts | 41% of 5,214 residents | 65% of 403,716 residents | 53% of 361,418 residents | 48% of 602,174 residents | 74% of 218,898 residents | 47% of 2,554 residents | 67% of 3,802,452 residents | 1% of 5,637,429 MA residents | 63% of 5,637,429 residents |

* Vaccination figures with fewer than 30 people are suppressed for privacy.

** "Unknown/other race" is shown as a % of the row population (county or state). "Unknown/unspecified county" is shown as a % of the column population (age or race/ethnicity group).

Booster doses administered: See the definitions page at the end of this document.

Source: Massachusetts Immunization Information System (MIIS). MIIS data are available for analysis one calendar day after they are reported to the MIIS. Data are current as of time of publication and are subject to change in future publications as additional data are reported. Data reflect doses administered (see "definitions"). Population estimates source: MDPH calculates rates per 100,000 population using denominators estimated by the University of Massachusetts Donahue Institute using a modified Hamilton-Perry model (Strate S, et al. Small Area Population Estimates for 2011 through 2020, report, Oct 2016.)

Note about totals: The difference in the Massachusetts state population total created by summing the age categories and by summing the race categories is expected due to the manner in which the estimates were created with small, compounded rounding and records with unknown demographic information.

Individuals who have Received Booster Doses

Data as of March 20, 2023

Individuals with at least one booster dose administered by county and age group (1 of 2)

Number of people in the county and age group with at least one booster dose divided by the fully vaccinated population in the county and age group

| | 5-11 years | 12-15 years | 16-19 years | 20-29 years | 30-39 years | 40-49 years | 50-59 years | 60-64 years | 65-69 years | 70-74 years | 75+ years | Total |
|-------------------|----------------------------|----------------------------|----------------------------|----------------------------|----------------------------|----------------------------|-----------------------------|----------------------------|----------------------------|----------------------------|----------------------------|-----------------------------|
| Barnstable | 29% of 5,331 residents | 39% of 5,906 residents | 53% of 6,910 residents | 44% of 16,197 residents | 47% of 17,197 residents | 56% of 17,383 residents | 64% of 28,258 residents | 75% of 19,202 residents | 82% of 19,657 residents | 85% of 18,400 residents | 87% of 30,446 residents | 66% of 185,631 residents |
| Berkshire | 28% of 4,617 residents | 44% of 3,996 residents | 55% of 4,493 residents | 45% of 10,057 residents | 51% of 11,003 residents | 60% of 10,816 residents | 66% of 15,447 residents | 76% of 9,297 residents | 83% of 8,568 residents | 83% of 7,677 residents | 86% of 12,076 residents | 64% of 98,665 residents |
| Bristol | 24% of 14,229 residents | 32% of 17,078 residents | 48% of 19,469 residents | 42% of 45,117 residents | 44% of 49,665 residents | 51% of 51,726 residents | 60% of 66,279 residents | 70% of 33,878 residents | 77% of 29,214 residents | 79% of 24,110 residents | 80% of 37,477 residents | 56% of 390,257 residents |
| Dukes | 32% of 753 residents | 49% of 772 residents | 58% of 722 residents | 37% of 1,979 residents | 46% of 2,660 residents | 57% of 2,290 residents | 68% of 2,673 residents | 80% of 1,435 residents | 82% of 1,462 residents | 85% of 1,390 residents | 94% of 1,753 residents | 63% of 17,976 residents |
| Essex | 30% of 33,422 residents | 44% of 31,167 residents | 56% of 33,032 residents | 47% of 73,860 residents | 52% of 83,001 residents | 59% of 81,574 residents | 66% of 101,461 residents | 75% of 52,017 residents | 81% of 44,090 residents | 82% of 35,550 residents | 84% of 55,914 residents | 61% of 630,627 residents |
| Franklin | 36% of 2,285 residents | 50% of 2,138 residents | 54% of 2,469 residents | 49% of 5,334 residents | 57% of 6,666 residents | 66% of 6,241 residents | 70% of 8,247 residents | 77% of 5,223 residents | 83% of 5,387 residents | 90% of 4,568 residents | 88% of 5,450 residents | 68% of 54,394 residents |
| Hampden | 23% of 13,703 residents | 34% of 14,862 residents | 46% of 16,289 residents | 40% of 38,727 residents | 45% of 41,562 residents | 53% of 40,610 residents | 62% of 50,959 residents | 71% of 27,586 residents | 78% of 24,419 residents | 81% of 19,974 residents | 81% of 31,125 residents | 57% of 320,922 residents |
| Hampshire | 49% of 5,875 residents | 63% of 4,874 residents | 60% of 6,064 residents | 55% of 15,719 residents | 63% of 13,931 residents | 70% of 13,590 residents | 74% of 17,523 residents | 80% of 10,184 residents | 85% of 9,905 residents | 89% of 8,588 residents | 90% of 11,356 residents | 71% of 118,839 residents |

* Vaccination figures with less than 30 people are suppressed for privacy.

** "Unknown/unspecified county" is shown as a % of the column population (age or race/ethnicity group).

Booster doses administered: See the definitions page at the end of this document.

Source: Massachusetts Immunization Information System (MIIS). MIIS data are available for analysis one calendar day after they are reported to the MIIS. Data are current as of time of publication and are subject to change in future publications as additional data are reported. Data reflect doses administered (see "definitions"). Booster doses administered: Data on booster doses administered reflect the additional dose of vaccine after completion of the primary series.

Population estimates source: MDPH calculates rates per 100,000 population using denominators estimated by the University of Massachusetts Donahue Institute using a modified Hamilton-Perry model (Strate S, et al. Small Area Population Estimates for 2011 through 2020, report, Oct 2016.) Note about totals: The difference in the Massachusetts state population total created by summing the age categories and by summing the race categories is expected due to the manner in which the estimates were created with small, compounded rounding and records with unknown demographic information.

Individuals who have Received Booster Doses

Data as of March 20, 2023

Individuals with at least one booster dose administered by county and age group (2 of 2)

Number of people in the county and age group with at least one booster dose divided by the fully vaccinated population in the county and age group

| | 5-11 years | 12-15 years | 16-19 years | 20-29 years | 30-39 years | 40-49 years | 50-59 years | 60-64 years | 65-69 years | 70-74 years | 75+ years | Total |
|---------------------------|--|---|---|---|---|---|---|---|---|---|---|----------------------------------|
| Middlesex | 44% of 85,101 residents | 57% of 67,038 residents | 65% of 66,315 residents | 55% of 191,643 residents | 63% of 209,232 residents | 70% of 183,718 residents | 74% of 198,675 residents | 80% of 95,456 residents | 85% of 79,693 residents | 86% of 65,435 residents | 87% of 104,727 residents | 67% of 1,369,469 residents |
| Nantucket | 21% of 474 residents | 36% of 491 residents | 46% of 494 residents | 28% of 1,653 residents | 38% of 2,076 residents | 52% of 2,011 residents | 61% of 1,924 residents | 73% of 827 residents | 80% of 714 residents | 84% of 545 residents | 83% of 696 residents | 52% of 11,942 residents |
| Norfolk | 41% of 37,543 residents | 54% of 30,389 residents | 67% of 31,005 residents | 56% of 72,517 residents | 63% of 81,490 residents | 70% of 77,728 residents | 73% of 93,524 residents | 80% of 45,405 residents | 85% of 37,997 residents | 86% of 30,682 residents | 87% of 50,389 residents | 68% of 598,083 residents |
| Plymouth | 25% of 18,699 residents | 38% of 19,011 residents | 54% of 21,479 residents | 48% of 43,162 residents | 50% of 47,230 residents | 58% of 50,530 residents | 65% of 67,793 residents | 74% of 34,564 residents | 81% of 30,287 residents | 83% of 25,800 residents | 85% of 38,712 residents | 61% of 400,126 residents |
| Suffolk | 37% of 26,096 residents | 44% of 22,783 residents | 48% of 27,311 residents | 48% of 140,245 residents | 59% of 120,049 residents | 63% of 77,603 residents | 68% of 77,127 residents | 76% of 35,527 residents | 81% of 29,712 residents | 83% of 23,451 residents | 85% of 36,349 residents | 60% of 623,218 residents |
| Worcester | 29% of 31,289 residents | 42% of 30,764 residents | 56% of 33,521 residents | 47% of 77,058 residents | 51% of 84,034 residents | 59% of 83,466 residents | 66% of 103,018 residents | 75% of 52,026 residents | 82% of 43,047 residents | 83% of 34,313 residents | 85% of 51,629 residents | 61% of 628,833 residents |
| Unknown/ Unspecified** | 0% of 283,627 MA residents 5-11 Years | 0% of 254,296 MA residents 12-15 Years | 1% of 278,761 MA residents 16-19 Years | 3% of 785,874 MA residents 20-29 Years | 2% of 804,304 MA residents 30-39 Years | 1% of 720,955 MA residents 40-49 Years | 1% of 856,477 MA residents 50-59 Years | 1% of 434,310 MA residents 60-64 Years | 1% of 372,853 MA residents 65-69 Years | 1% of 307,091 MA residents 70-74 Years | 1% of 479,896 MA residents 75+ Years | 1% of 5,637,429 residents |
| Massachusetts | 35% of 283,627 residents | 47% of 254,296 residents | 56% of 278,761 residents | 49% of 785,874 residents | 56% of 804,304 residents | 62% of 720,955 residents | 67% of 856,477 residents | 75% of 434,310 residents | 81% of 372,853 residents | 83% of 307,091 residents | 84% of 479,896 residents | 63% of 5,637,429 residents |

* Vaccination figures with less than 30 people are suppressed for privacy.

** "Unknown/unspecified county" is shown as a % of the column population (age or race/ethnicity group).

Booster doses administered: See the definitions page at the end of this document.

Source: Massachusetts Immunization Information System (MIIS). MIIS data are available for analysis one calendar day after they are reported to the MIIS. Data are current as of time of publication and are subject to change in future publications as additional data are reported. Data reflect doses administered (see "definitions"). Booster doses administered: Data on booster doses administered reflect the additional dose of vaccine after completion of the primary series.

Population estimates source: MDPH calculates rates per 100,000 population using denominators estimated by the University of Massachusetts Donahue Institute using a modified Hamilton-Perry model (Strate S, et al. Small Area Population Estimates for 2011 through 2020, report, Oct 2016.) Note about totals: The difference in the Massachusetts state population total created by summing the age categories and by summing the race categories is expected due to the manner in which the estimates were created with small, compounded rounding and records with unknown demographic information.

Critical definitions

Please note: the following terms and definition apply to COVID-19 only. Updated 9/20/2022.

Doses administered: All valid doses of Janssen/Johnson & Johnson, Moderna, Pfizer, and Novavax COVID-19 vaccine that have been given to people by providers and reported to MIIS are included in this measurement. Duplicate patient records may be created when patient information is not entered consistently. Data include doses administered by MA providers as well as through the Federal Pharmacy Partnership for Long-term Care Program and the retail pharmacies in the jurisdictional transfer program and Community Health Centers (CHCs) receiving vaccine from the U.S. Health Resources and Services Administration (HRSA). Some doses are administered as part of a separate federal distribution system and would not be included here.

Individuals with a least one dose: An individual is counted as at least one dose if they have received one or more doses of vaccine. This is measured as the total number of first doses of Moderna, Pfizer, and Novavax vaccine administered and reported, plus the total number of Janssen/Johnson & Johnson doses administered and reported.

Individuals who are fully vaccinated: An individual is counted as fully vaccinated if they have received the number of doses required to complete the primary series for their age and all of these doses have been reported to MIIS. Pfizer recipients under 5 years of age require three doses of vaccine; all other Pfizer recipients require two doses. Moderna and Novavax recipients require two doses of vaccine. Janssen/Johnson & Johnson recipients require one dose of vaccine.

Booster doses administered: On 8/13/21, a third dose was recommended for severely immunocompromised individuals to complete their primary series. These doses are counted as 'booster' doses. On 9/24/21, booster doses of Pfizer vaccine were recommended for individuals aged 65 and older, for those at risk for severe disease, or for those at high risk for occupational exposure six months after completing their primary series. On 10/22/21, booster doses of Moderna vaccine were recommended for the same population. Additionally, booster doses of any vaccine, including Johnson & Johnson, were recommended for everyone 18 years and older at least two months after receiving initial Johnson & Johnson vaccine. On 12/9/21, mix and match and Johnson & Johnson boosters were added to the booster counts, which redistributed shots that had previously been counted in other rows. This also adjusted for people who have completed a primary series and had previously been double counted. On 1/4/22, the Pfizer vaccine booster dose recommendation was revised to be five months after completing primary series. On 1/7/22, the Moderna vaccine booster dose recommendation was revised to be five months after completing primary series. On 3/29/22, second monovalent booster doses were recommended for adults aged 50 years and older.

On 9/1/22, bivalent boosters were recommended for everyone aged 12 years and older whose primary series or most recent booster dose were administered at least two months ago. This recommendation replaced all previous booster recommendations for this age group.

See, <https://www.mass.gov/info-details/covid-19-booster-frequently-asked-questions> for details on which formulation of vaccine is recommended at which intervals.

Additional doses beyond second booster: Some individuals with certain health conditions are eligible to receive additional doses of vaccine. These doses are counted in this category. For more information, see: <https://www.mass.gov/info-details/covid-19-vaccinations-for-individuals-with-certain-medical-conditions>

Individuals who are unvaccinated/unreported vaccination: This is the population estimate for the subpopulation minus the number of people who received at least one dose of vaccine. It is important to recall that not being represented in MIIS does not necessarily mean someone has not received vaccine.

MIIS: Immunization data from most (but not all) providers in Massachusetts are reported into the Massachusetts Immunization Information System (MIIS) through direct messages from electronic health records or direct entry by users. Due to inputting and processing, it may take 24-48 hours or more for shipping or administration data to appear in MIIS. MIIS data are available for analysis one calendar day after they are reported to the MIIS. Data are current as of time of publication and may be subject to change in future publications as additional data are reported. As of 11/4/21, MIIS numbers include vaccinations reported from the Veterans Administration for MA residents. MIIS does not include data on health states or occupations of individuals.